

**LAB** Group Work Safety and Reactions**Question** Are you being safe?**Procedure**

1. Sometimes a chemical change happens when two substances are mixed together. The chemical change may produce heat, bubbles, or a change of color.
2. Put on your safety goggles, gloves, and lab apron. Why do you think you might need these for this experiment?

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**Materials**

- 2 beakers or clear plastic cups
- water
- vinegar
- baking soda
- plastic spoon
- 10-mL graduated cylinder

3. Pour 5 mL of water into a cup. Then put a spoonful of baking soda into the cup. Stir the baking soda into the water. What steps did you take to do this safely?
4. Observe what happens when the baking soda mixes with the water. Describe what you see.
5. Pour 5 mL of vinegar into a cup. Then put a spoonful of baking soda into the cup. Stir the baking soda into the vinegar.
6. Observe what happens when the baking soda mixes with the vinegar. Describe what you see.

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**Analysis**

1. What did you do during this experiment to keep yourself safe?

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2. Which substance produced a chemical change when mixed with baking soda? How could you tell that a change took place?

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